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Patent
Attorney's Docket No. 033072-010

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)
Barak et al.) Group Art Unit: 1646
Application No. 09/631,468) Examiner: Unknown
Filed: August 3, 2000)
For: Methods for Assaying Receptor Activity and)
Constructs Useful in Such Methods)

**INFORMATION DISCLOSURE STATEMENT
TRANSMITTAL LETTER**

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Enclosed is a Supplemental Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.

No additional fee for submission of an IDS is required.

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

By: Melissa M. Haywo
Melissa M. Haywo
Registration No. 45,774

P.O. Box 1404
Alexandria, Virginia 22313-1404
(919) 941-9240

Date: Dec. 18, 2000

Patent
Attorney's Docket No. 033072-010

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)
Barak et al.) Group Art Unit: 1646
Application No. 09/631,468) Examiner: Unknown
Filed: August 3, 2000)
For: Methods for Assaying Receptor Activity and)
Constructs Useful in Such Methods)

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

The documents are being submitted within 3 months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later, therefore no fee or certification is required under 37 C.F.R. § 1.97(b).

To assist the Examiner, the documents listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

By: Melissa M. Hayworth
Melissa M. Hayworth
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Alexandria, VA 22313-1404
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Date: Dec. 18, 2000

INFORMATION & ENCLOSURE CITATION

PTO-1449

ATTORNEY'S DKT No.
033072-010

APPLICATION NO.
09/631,468

APPLICANT
Barak et al.

FILING DATE
August 3, 2000

GROUP
1646

DEC 20 2000

PATENT & TRADEMARK OFFICE
U.S. GOVERNMENT

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
N.M.	5,352,660	10/4/94	Pawson, A.J.	514	12	
	5,462,856	10/31/95	Lerner et al.	435	7.21	
	5,491,084	10/4/94	Chalfie et al.	514	12	
	5,541,309	7/30/96	Prasher, D.	536	23.2	DEC 26 2000
	5,627,039	5/6/97	Pereira-Smith et al.	435	7.23	
	5,700,673	12/23/97	McElroy et al.	435	189	TECH CENTER 1600/2900
	5,744,313	4/28/98	Williams et al.	435	7.1	
	5,804,387	9/8/98	Cormack et al.	435	6	
D	5,856,111	1/5/99	Ullrich et al.	435	7.21	

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

N.M.	Goodman, O.B., et al., "β-Arrestin acts as a clathrin adaptor in endocytosis of the β ₂ -adrenergic receptor," <i>Nature</i> , 338:447-450 (1996).
	McConalogue, K., et al., "Cellular and Subcellular localization of G-Protein Receptor Kinases, Arrestins and G-Proteins: Implications for Receptor Regulation," <i>Gastroenterology</i> , 110(4) Supplement: A1098 AGA Abstracts.
↓	Zuckerman, R., et al., "Sites of arrestin action during the quench phenomenon in retinal rods," <i>FEBS Lett</i> , 238(2):379-84 (1988).

EXAMINER

N.M./R.E.

DATE CONSIDERED

4/22/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Attachment 09/631 468 SHEET 2 OF 2

INFORMATION DISCLOSURE CITATION		ATTORNEY'S DKT No. 033072-010	APPLICATION NO. 09/631,468
		APPLICANT Barak et al.	DEC 20 2000
		FILING DATE August 3, 2000	GROUP 1646

U.S. PATENT DOCUMENTS						
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
JN	5,912,137	6/15/99	Tsien et al.	435	15	
	5,912,138	6/15/99	Tonks et al.	435	21	RECEIVED
	5,958,713	9/28/99	Thastrup et al.	435	7.4	
	5,968,750	10/19/99	Zolotukhin et al.	435	6	DEC 26 2000
	5,998,204	12/7/99	Tsien et al.	435	325	TECH CENTER 1600/290
	6,051,386	4/18/00	Lerner et al.	435	7.21	
	6,066,476	5/23/00	Tsien et al.	435	69.7	

FOREIGN PATENT DOCUMENTS						Translation	
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
EXAMINER	DATE CONSIDERED
N. S. Barak	10/10/00

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Attorney's Docket No. 5405-140CT1

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Barak et al.

Serial No.: To be Assigned

Group Art Unit: 1646

Filed: Concurrently Herewith

Examiner: N. Basi

For: **METHODS OF ASSAYING RECEPTOR ACTIVITY AND CONSTRUCTS
USEFUL IN SUCH METHODS**

Date: August 3, 2000

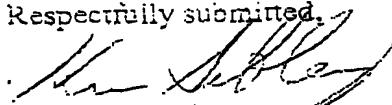
BOX PATENT APPLICATION
Commissioner for Patents
Washington, DC 20231

INFORMATION DISCLOSURE STATEMENT
CITATION UNDER 37 C.F.R. § 1.97

Sir:

Attached is a list of documents on form PTO-1449. Items 1-26 listed on the PTO-1449 were cited in parent application Serial No. 09/233,530, filed January 20, 1999. Since the benefit of this application is claimed under 35 U.S.C. §120, no copies need to be furnished in accordance with 37 C.F.R. §1.98(d); however, copies will be furnished on request. It is requested that these documents be considered by the Examiner and officially made of record in accordance with the provisions of 37 C.F.R. §1.97 and Section 609 of the MPEP.

Respectfully submitted,

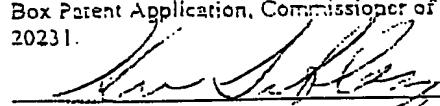

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"Express Mail" mailing label number EL481794803US
Date of Deposit: August 3, 2000

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Box Patent Application, Commissioner of Patents, Washington, DC 20231.


Kenneth D. Sibley
Date of Signature: August 3, 2000

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office				Attorney Docket No: 5405-140			Serial No.: 08/869,568
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)				Applicant: Barak et al.			
				Filing Date: 5 June 1997			Group:1646
U. S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
1	Barak et al., <i>Abstract #2484, Molecular Biology of the Cell</i> 7:427a (December 1996).						

EXAMINER
*EXAMINER

DATE CONSIDERED

Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office				Attorney Docket No: 5405-140			Serial No.: 08/869,568
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)				Applicant: Barak et al.			
				Filing Date: 5 June 1997			Group:1646
U. S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
	1	WO 98/12310		PCT			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	2	Yokoe and Meyer, <i>Spatial Dynamics of GFP-tagged proteins investigated by local fluorescence enhancement</i> , <i>Nature Biotechnology</i> 14:1252 (October 1996).					

EXAMINER
***EXAMINER**

DATE CONSIDERED _____
 Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if no conformance and not considered. Include copy of this form with next communication to applicant.

PTO 892 DEA/FCE 1994

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

NOTICE OF REFERENCES CITED

SERIAL NUMBER

Art Unit

Attachment
to Paper
Number

08/869,568

1646

5

APPLICANT(S) :BARAK et al

U.S. PATENT DOCUMENTS

*		DOCUMENT NUMBER	DATE	NAME(S)	CLASS	SUBCLASS	FILING DATE
	A	US 5,366,889	Nov. 22, 1994	MacDonald et al	435	252.3	Nov. 30, 1992

FOREIGN PATENT DOCUMENTS

*		DOCUMENT NUMBER	DATE	COUNTRY	NAME(S)	CLASS	SUBCLASS

OTHER REFERENCES
AUTHOR, TITLE, PERTINENT PAGES, ETCPublic
Availability
Date

B	Cubitt, A. B. et al., Understanding, Improving and Using Green Fluorescent Proteins. Trends in Biochemical Sciences, pages 448-455	1995
C	Harris, E. L. V. et al, Protein Purification Methods, Oxford University Press, New York. Pages 12-18	1990

EXAMINER Nirmal S. Basi	DATE 5/26 /98	* A COPY OF THIS REFERENCE IS NOT BEING FURNISHED WITH THIS OFFICE ACTION. (SEE MPEP SECTION 707.05(a)). PAGE 1 OF 1
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ORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket Number
5405-140CT1

Serial No.
To be assigned

LIST OF DOCUMENTS CITED BY APPLICANT

(Use several sheets if necessary)

Applicants: Barak et al.

Filing Date: Concurrently herewith

U.S. PTO
09/631468
03/00
JC857 Group:
1646

U. S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
NM	1	5,284,746	2/8/94	Sledziewski et al	435	6	2/8/90
NM	2	5,468,854	11/21/95	McCabe et al	540	498	7/22/93
	3	5,482,835	1/9/96	King et al	435	6	6/3/93
	4	5,491,084	2/13/96	Chalfie et al	435	189	9/10/93
	5	5,532,157	7/2/96	Fink	435	240.2	1/3/94
	6	5,576,436	11/19/96	McCabe et al	546	156	3/2/94
	7	5,366,889	11/22/94	MacDonald et al	435	252.3	10/30/92
	8	5,989,835	11/23/99	Dunlay et al.	435	7.2	2/27/97

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes No
MR	9	WO94/16684	8/4/94	PCT			
L	10	WO98/12310		PCT			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

NM	11	L.S. Barak et al.; <i>Internal Trafficking and Surface Mobility of a Functionally Intact β_2-Adrenergic Receptor-Green Fluorescent Protein Conjugate</i> , <i>Mole. Pharm.</i> 51:177-184(1997)
	12	L.S. Barak et al.; <i>The Conserved Seven-Transmembrane Sequence NP(X)_{2,3}Y of the G-Protein-Coupled Receptor Superfamily Regulates Multiple Properties of the β_2-Adrenergic Receptor</i> , <i>Biochem.</i> 34:15407-15414 (1995)
	13	L.S. Barak et al.; <i>A Highly Conserved Tyrosine Residue in G Protein-coupled Receptors is Required for Agonist-mediated β_2-Adrenergic Receptor</i> , <i>J. of Biological Chem.</i> 269, No. 4:2790-2795 (1994)
	14	S.S.G. Ferguson et al.; <i>Role of Phosphorylation in Agonist-promoted β_2-Adrenergic Receptor Sequestration</i> , <i>The J. of Biological Chem.</i> 270, No. 42:24782-24789 (1995)
	15	S.S.G. Ferguson et al.; <i>Role of β-Arrestin in Mediating Agonist-Promoted G Protein-Coupled Receptor Internalization</i> , <i>Science</i> 271:363-366 (1996)
	16	S.S.G. Ferguson et al. <i>G-protein-coupled receptor regulation: role of G-protein coupled receptor kinases and arrestins</i> , <i>Can. J. Physiol. Pharmacol.</i> 74:1095-1110 (Oct. 1996)
	17	M.J. Lohse et al.; <i>β-Arrestin: A Protein That Regulates β-Adrenergic Receptor Function</i> , <i>Science</i> 248:1547-1550 (1990)

FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

LIST OF DOCUMENTS CITED BY APPLICANT

(Use several sheets if necessary)

Attorney Docket Number
5405-140CT1Serial No.
To be assigned

Applicants: Barak et al.

Filing Date: Concurrently herewith

Group:
1646

N-13	18	L. Ménard et al.; <i>Members of the G Protein-Coupled Receptor Kinase Family That Phosphorylate the β-Adrenergic Receptor Facilitate Sequestration</i> , <i>Biochem</i> 35:4155-4160 (1996)
	19	M. Ormö et al.; <i>Crystal Structure of the Aequorea victoria Green Fluorescent Protein</i> , <i>Science</i> 273: 1392-1295 (1996)
	20	Cubitt, A.B. et al.; <i>Understanding, Improving and Using Green Fluorescent Proteins</i> , <i>Trends in Biochemical Sciences</i> , 448-455 (1995)
	21	Harris, E.L.V. et al.; <i>Protein Purification Methods</i> , Oxford University Press, New York, Pages 12-18 (1990)
	22	Yokoe and Meyer, <i>Spatial Dynamics of GFP-tagged proteins investigated by local fluorescence enhancement</i> , <i>Nature Biotechnology</i> , 14:1252 (October 1996)
	23	Barak et al.; <i>Abstract #2484</i> , <i>Molecular Biology of the Cell</i> , 7:427a (December 1996)
	24	Attramadal et al.; <i>β-Arrestin2, a Novel Member of the Arrestin/β-Arrestin Gene Family*</i> , <i>The Journal of Biological Chemistry</i> , 267:25 17882-17890 (1992).
	25	Barak et al.; <i>A β-Arrestin/Green Fluorescent Protein Biosensor for Detecting G Protein-coupled Receptor Activation*</i> , <i>The Journal of Biological Chemistry</i> , 272:44 27497-27500 (1997).
✓	26	Ferguson et al.; <i>Molecular Mechanisms of G Protein-Coupled Receptor Desensitization and Resensitization</i> , <i>Life Sciences</i> , 62:17/18 1561-1565 (1998).

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office				Attorney Docket Number 5405-140		Serial No. To be Assigned	
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)				Applicants: Lawrence S. Barak, Marc G. Caron, Stephen S. Gergusson, Jie Chang			
				Filing Date: Concurrently Herewith		Group To be Assigned	
U. S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
<i>NSB</i>	1	5,284,746	2/8/94	Sledziewski et al.	435	6	
	2	5,468,854	11/21/95	McCabe et al.	540	498	
	3	5,482,835	1/9/96	King et al.	435	6	
	4	5,491,084	2/13/96	Chalfie et al.	435	189	
	5	5,532,157	7/2/96	Fink	435	240.2	
	6	5,576,436	11/19/96	McCabe et al.	546	156	
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
<i>NSO</i>	7	WO94/16684	8/4/94	PCT			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>NSB</i>	8	L. S. Barak et al.; <i>Internal Trafficking and Surface Mobility of a Functionally Intact β_2-Adrenergic Receptor-Green Fluorescent Protein Conjugate</i> , <i>Mole. Pharm.</i> 51:177-184 (1997).					
	9	L. S. Barak et al.; <i>The Conserved Seven-Transmembrane Sequence NP(X)_{2,3}Y of the G-Protein-Coupled Receptor Superfamily Regulates Multiple Properties of the β_2-Adrenergic Receptor</i> , <i>Biochem.</i> 34:15407-15414 (1995).					
	10	L. S. Barak et al.; <i>A Highly Conserved Tyrosine Residue in G Protein-coupled Receptors is Required for Agonist-mediated β_2-Adrenergic Receptor</i> , <i>J. of Biological Chem.</i> 269, No. 4:2790-2795 (1994).					
	11	S. S. G. Ferguson et al.; <i>Role of Phosphorylation in Agonist-promoted β_2-Adrenergic Receptor Sequestration</i> , <i>The J. of Biological Chem.</i> 270, No. 42:24782-24789 (1995).					
	12	S. S. G. Ferguson et al.; <i>Role of β-Arrestin in Mediating Agonist-Promoted G Protein-Coupled Receptor Internalization</i> , <i>Science</i> 271:363-366 (1996).					
	13	S. S. G. Ferguson et al.; <i>G-protein-coupled receptor regulation: role of G-protein-coupled receptor kinases and arrestins</i> , <i>Can. J. Physiol. Pharmacol.</i> 74:1095-1110 (1996).					
	14	M. J. Lohse et al.; <i>β-Arrestin: A Protein That Regulates β-Adrenergic Receptor Function</i> , <i>Science</i> 248:1547-1550 (1990).					
	15	L. Ménard et al.; <i>Members of the G Protein-Coupled Receptor Kinase Family That Phosphorylate the β_2-Adrenergic Receptor Facilitate Sequestration</i> , <i>Biochem.</i> 35:4155-4160 (1996).					
	16	M. Ormö et al.; <i>Crystal Structure of the Aequorea victoria Green Fluorescent Protein</i> , <i>Science</i> 273:1392-1395 (1996).					

**FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office**

Attorney Docket Number
5405-140CT

Serial No.
To be assigned

LIST OF DOCUMENTS CITED BY APPLICANT

(Use several sheets if necessary)

Applicants: Barak et al.

Filing Date: Concurrently herewith

Group 646
To be assigned

U. S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
N VB	1	5,284,746	2/8/94	Sledziewski et al	435	6	2/8/90
	2	5,468,854	11/21/95	McCabe et al	540	498	7/22/93
	3	5,482,835	1/9/96	King et al	435	6	6/3/93
	4	5,491,084	2/13/96	Chalfie et al	435	189	9/10/93
	5	5,532,157	7/2/96	Fink	435	240.2	1/3/94
	6	5,576,436	11/19/96	McCabe et al	546	156	3/2/94
	7	5,366,889	11/22/94	MacDonald et al	435	252.3	10/30/92

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes No
N SA	8	WO94/16684	8/4/94	PCT	—	—	—
↓	9	WO98/12310		PCT	—	—	—

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

N VB	10	L.S. Barak et al.; <i>Internal Trafficking and Surface Mobility of a Functionally Intact β_2-Adrenergic Receptor-Green Fluorescent Protein Conjugate</i> , <i>Mole. Pharm.</i> 51:177-184(1997)
✓	11	L.S. Barak et al.; <i>The Conserved Seven-Transmembrane Sequence NP(X)_{2,3}Y of the G-Protein-Coupled Receptor Superfamily Regulates Multiple Properties of the β_2-Adrenergic Receptor</i> , <i>Biochem.</i> 34:15407-15414 (1995)
✓	12	L.S. Barak et al.; <i>A Highly Conserved Tyrosine Residue in G Protein-coupled Receptors is Required for Agonist-mediated β_2-Adrenergic Receptor</i> , <i>J. of Biological Chem.</i> 269, No. 4:2790-2795 (1994)
✓	13	S.S.G. Ferguson et al.; <i>Role of Phosphorylation in Agonist-promoted β_2-Adrenergic Receptor Sequestration</i> , <i>The J. of Biological Chem.</i> 270, No. 42:24782-24789 (1995)
✓	14	S.S.G. Ferguson et al.; <i>Role of β-Arrestin in Mediating Agonist-Promoted G Protein-Coupled Receptor Internalization</i> , <i>Science</i> 271:363-366 (1996)
✓	15	S.S.G. Ferguson et al. <i>G-protein-coupled receptor regulation: role of G-protein coupled receptor kinases and arrestins</i> , <i>Can. J. Physiol. Pharmacol.</i> 74:1095-1110 (Oct. 1996)
✓	16	M.J. Lohse et al.; <i>β-Arrestin: A Protein That Regulates β-Adrenergic Receptor Function</i> , <i>Science</i> 248:1547-1550 (1990)

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7/2/98

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09/23/95/3530

Applicants cards

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office		Attorney Docket Number 5405-140CF JCY9	Serial No. 09/233,531
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)		 Applicants: Barak et al.	
		Filing Date 20 January 1999	Group 16A 6 1643

U. S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriated
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes No
	BA						
	BB						
	BC						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

MS	CA	Attramadal et al.; <i>β-Arrestin2, a Novel Member of the Arrestin/β-Arrestin Gene Family*</i> , The Journal of Biological Chemistry 267:25 17882-17890 (1992).
↓	CB	Barak et al.; <i>A β-Arrestin/Green Fluorescent Protein Biosensor for Detecting G Protein-coupled Receptor Activation*</i> , The Journal of Biological Chemistry 272:44 27497-27500 (1997).
↓	CC	Ferguson et al.; <i>Molecular Mechanisms of G Protein-Coupled Receptor Desensitization and Resensitization</i> , Life Sciences 62:17/18 1561-1565 (1998).

Nirmit S. Barak

3/23/00

100

- 1 -

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office			Attorney Docket Number 5405-140CT	Serial No. To be assign
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)			Applicants: Barak et al.	
			Filing Date: Concurrently herewith	<i>16c16</i> Group To be assign
N S R	17	L. Ménard et al.; <i>Members of the G Protein-Coupled Receptor Kinase Family That Phosphorylate the Adrenergic Receptor Facilitate Sequestration</i> , <i>Biochem.</i> 35:4155-4160 (1996)		
	18	M. Ormö et al.; <i>Crystal Structure of the Aequorea victoria Green Fluorescent Protein</i> , <i>Science</i> 273: 139 1295 (1996)		
	19	Cubitt, A.B. et al.; <i>Understanding, Improving and Using Green Fluorescent Proteins</i> , <i>Trends in Biochemical Sciences</i> , 448-455 (1995)		
	20	Harris, E.L.V. et al.; <i>Protein Purification Methods</i> , Oxford University Press, New York, Pages 12-18 (1990)		
	21	Yokoe and Meyer, <i>Spatial Dynamics of GFP-tagged proteins investigated by local fluorescence enhancement</i> , <i>Nature Biotechnology</i> 14:1252 (October 1996)		
✓	22	Barak et al.; <i>Abstract #2484</i> , <i>Molecular Biology of the Cell</i> , 7:427a (December 1996)		

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PTO 892 DEA/FCE 1994 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			SERIAL NUMBER	Art Unit	Attachment to Paper Number		
NOTICE OF REFERENCES CITED			09/233,530	1646	9		
APPLICANT(S) :BARAK et al							
U.S. PATENT DOCUMENTS							
*		DOCUMENT NUMBER	DATE	NAME(S)	CLASS	SUBCLASS	FILING DATE
	A	5,989,835	11/23/99	Dunlay et al	435	7.2	2/27/97
FOREIGN PATENT DOCUMENTS							
*		DOCUMENT NUMBER	DATE	COUNTRY	NAME(S)	CLASS	SUBCLASS
OTHER REFERENCES AUTHOR, TITLE, PERTINENT PAGES, ETC						Public Availability Date	
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